



We invite applications for multiple PhD openings in the Salahshoor Research Group at the Duke University. We are building a team of exceptional researchers who are driven by passion and curiosity and are excited by fundamental questions about physics of solids, ranging from biological systems to man-made structures. Our lab operates at the intersection of mechanics, data science, material science and biology, and applied mathematics. Current areas of interest include:

- Data-Driven methods in mechanics.
- Computational mechanics of biological systems subject to various stimuli.
- Mechanics of ultrasonic medicine.
- Dynamics of complex material systems.

How we imagine you

You are motivated, passionate, curious, and creative. You are proactive, organized, focused, diligent, and enjoy working on complex problems. You are deeply enthusiastic about mechanics and mathematics, and you are an avid computer programmer. You have strong work ethics and a track record of excellence in your professional relationship with your former supervisor/mentor/colleagues.

What we expect from you

We expect you to have

- Undergraduate degree in Engineering (Civil, Mechanical, Aerospace, Material) or Applied Sciences (Mathematics, Physics, Computer Science).
- Master's degree in any of the above majors is not required, but a great plus.
- Prior relevant research activities.
- Strong background in math, physics, solid mechanics, and computer programming.
- Good communication skills.

What we offer

As a PhD student in our lab, you will

- Experience an excellent educational and research environment here at Duke.
- Specialize in one of the cutting-edge areas at the intersection of the physics of solids, data science, and computational mathematics.
- Contribute to the knowledge creation in the field through high-quality publications.
- Build and hone the skills and training you need to embark on your professional career.
- Become an integral part of a research group that is invested in your success.

How to proceed

After reviewing the research thrusts in our lab website at <https://salahshoor.pratt.duke.edu>, please email your CV (including name of references) with a brief statement of research interests and relevant background to hossein.salahshoor@duke.edu.

Further information about PhD programs at Duke Engineering:

<https://pratt.duke.edu/admissions/phd/>.

Further information on the application process :

<https://gradschool.duke.edu/admissions/application-instructions/>.